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**Title:** JP10148099A2: SEGMENT-TURN LIFTER FOR SHIELD EXCAVATING MACHINE  
**Country:** JP Japan  
**Kind:** A  
**Inventor:** WATANABE KATSUO;  
 TATEIWA SHINGO;  
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**Published / Filed:** 1998-06-02 / 1996-11-19  
**Application Number:** JP1996000308017  
**IPC Code:** E21D 11/40;  
**Priority Number:** 1996-11-19 JP1996000308017  
**Abstract:**

**PROBLEM TO BE SOLVED:** To efficiently supply segments to an assembling device of segments, by turning over segments sent in from the outside and raising them up to an upper segment feed conveyor to stock them, in a shield excavating machine.

**SOLUTION:** A lifting frame 46 is provided in a gate type turn lifter body constituted of guide posts 40 transferable on rails and connection beams 41, and a turning-over frame 55 is provided through a slewing center shaft 53, in a segment-turn lifter 35. The lifting frame 46 is lowered and the segments 20 sent in from the outside are held by a segment holder 58 of the turning-over frame 55 and raised and the frame 55 is turned over at the middle position and further raised up to the uppermost position to transfer the segments 20 on segment guide rollers 64, 65 onto a segment-supply conveyor by a segment pusher. By the repetition of this motion, the segments 20 are stocked on the segment-supply conveyor. Accordingly, the segments can be efficiently supplied to the segment-assembling device.

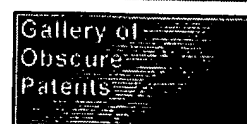
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